



Rec'd PCT/PTO 12 MAY 2005  
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10/534533

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*Andrew Jersey*

Dated 5 December 2003

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04 JUL 03 EB 093-1 037658  
P01/7700 0100-031 652.8

THE PATENT OFFICE  
Request for grant of a patent K  
(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

JUL 2003  
RULE 97  
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The Patent Office

Cardiff Road  
Newport  
South Wales  
NP10 8QQ

1. Your reference

NAPBIN-10V2

2. Patent application number

(The Patent Office will fill in this part)

0315652.8

3. Full name, address and postcode of the or of each applicant (underline all surnames)

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Patents ADP number (if you know it) 8246506003

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

ENCAPSULATING DISPOSABLE NAPPY BIN.

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Patents ADP number (if you know it)

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number

Date of filing

(if you know it)

(day / month / year)

GB

0226807.6

15 NOV 2001

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

0226807.6

Date of filing

(day / month / year)

2001

M/S

12/4

15 NOV 2002

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- any applicant named in part 3 is not an inventor, or
- there is an inventor who is not named as an applicant, or
- any named applicant is a corporate body.

See note (d)

NO

# NAPPY BIN PATENT

REF: NAPBIN-10

## ABSTRACT

The invention relates to nappy bin for disposable of disposable baby nappy's. The particular feature of the invention is that the user can place a disposable soiled nappy onto rollers and the device laminates and wraps the soiled nappy in self adhering film, similar to cling film and discharges the sealed nappy into the container below, which will accommodate a quantity of wrapped nappy's.

## DESCRIPTION

The invention describes a device comprising a base container (1) supporting a top wrapping assembly (2). The top wrapping assembly (2) includes two support trays (4) & (5) each containing an individual roll of self-adhering film (3). Adjacent to the rolls of film (3) are two crimping rollers (6) & (7). The film (3) is extracted from each role and manually joined together and then placed in the space between the crimping rollers (6) & (7). The rollers are synchronised and can be rotated by way of a knob (8) through link gears and toothed belt.

The rollers (6) & (7) which can rotate in the opposite directions and towards each other so as to draw the film between the rollers and dispense into the base container (1) below.

The crimping rollers (6) & (7) are constructed in three sections. The section (11) at each end is a firm frictional material with interlocking bumps. The material grips the film to laminate and crimp it together during the rotation action and seal the edge of the film sheets.

The central area (12) is of a very soft and compliant material allowing the bulky nappy to be drawn through between the rollers.

The rolls of film (3) could also be perforated at intermittent intervals to assist the user terminate the wrapping when the container (1) is full.

**FIG 1** Shows the base container with wrapped nappies and the top wrapping assembly

**FIG 2** Shows the device with the rolls of self-adhering film being loaded into the support trays

**FIG 3** Shows the device with the ends of the self-adhering film being joined in preparation to wrap the nappy

**FIG 4** Shows the nappy being inserted and drawn into the device

~~FIG 5 Shows the drive coil construction~~

## CLAIMS

- 1) A device incorporating two roles of self-adhering film (3) supported in adjacent parallel support trays (4) & (5)
- 2) As described above a device incorporating two adjacent rollers (6) & (7) over and through which the self-adhering film (3) is drawn and laminated
- 3) As described above a device incorporating rollers (6) & (7) for laminating the film
- 4) As described above a device incorporating rollers (6) & (7) for laminating the film, which comprise different sections where the end sections (11) are of a form that crimps and grips the film and also synchronises the rotation of the rollers
- 5) As described above a device incorporating rollers for laminating the film, which comprise different sections where the central section (12) is of a compliant material allowing the surface and film to comply to the form of the nappy.
- 6) As described above a device with rollers which are rotated by a separate knob (8) or lever linked by gear or belt
- 7) As described above a device which wraps the nappy (9) in sealed self-adhering film

13 November 2002

By JMDA

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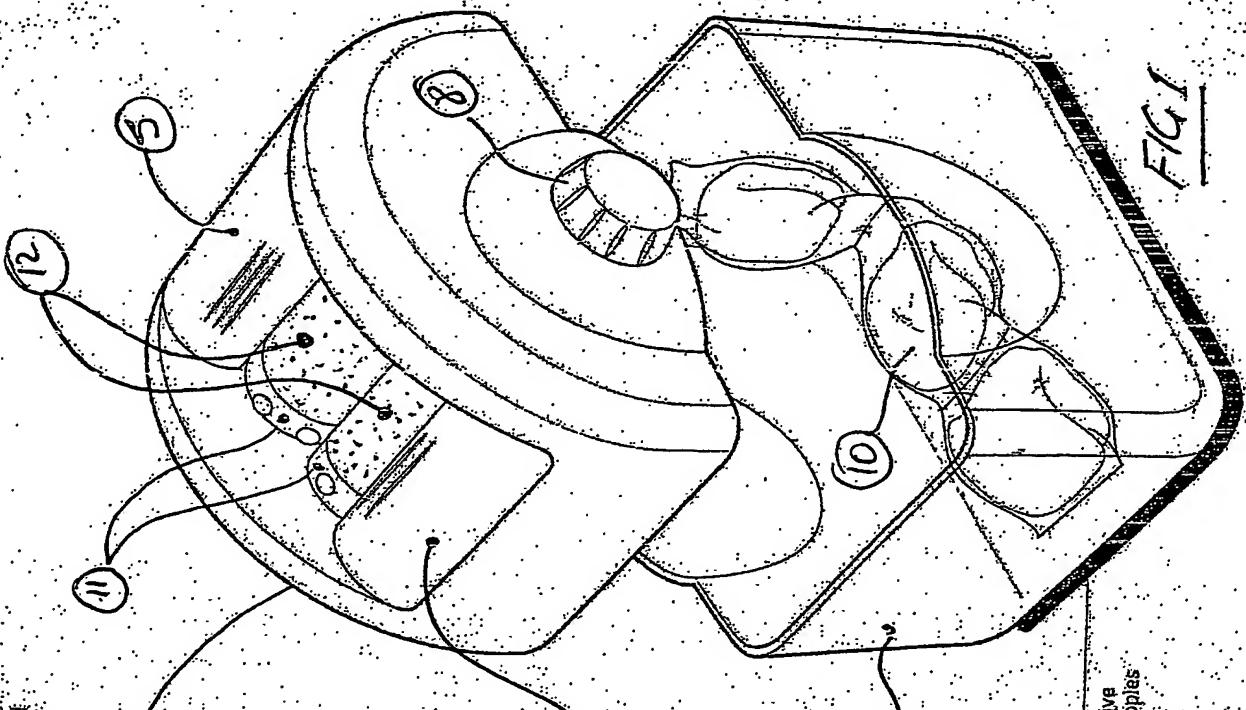


FIG 3

FIG 4

1. Load the cling film in the compartments and close the covers.

3. Place the nappy into rollers and turn the rollers with the wheels on either side.

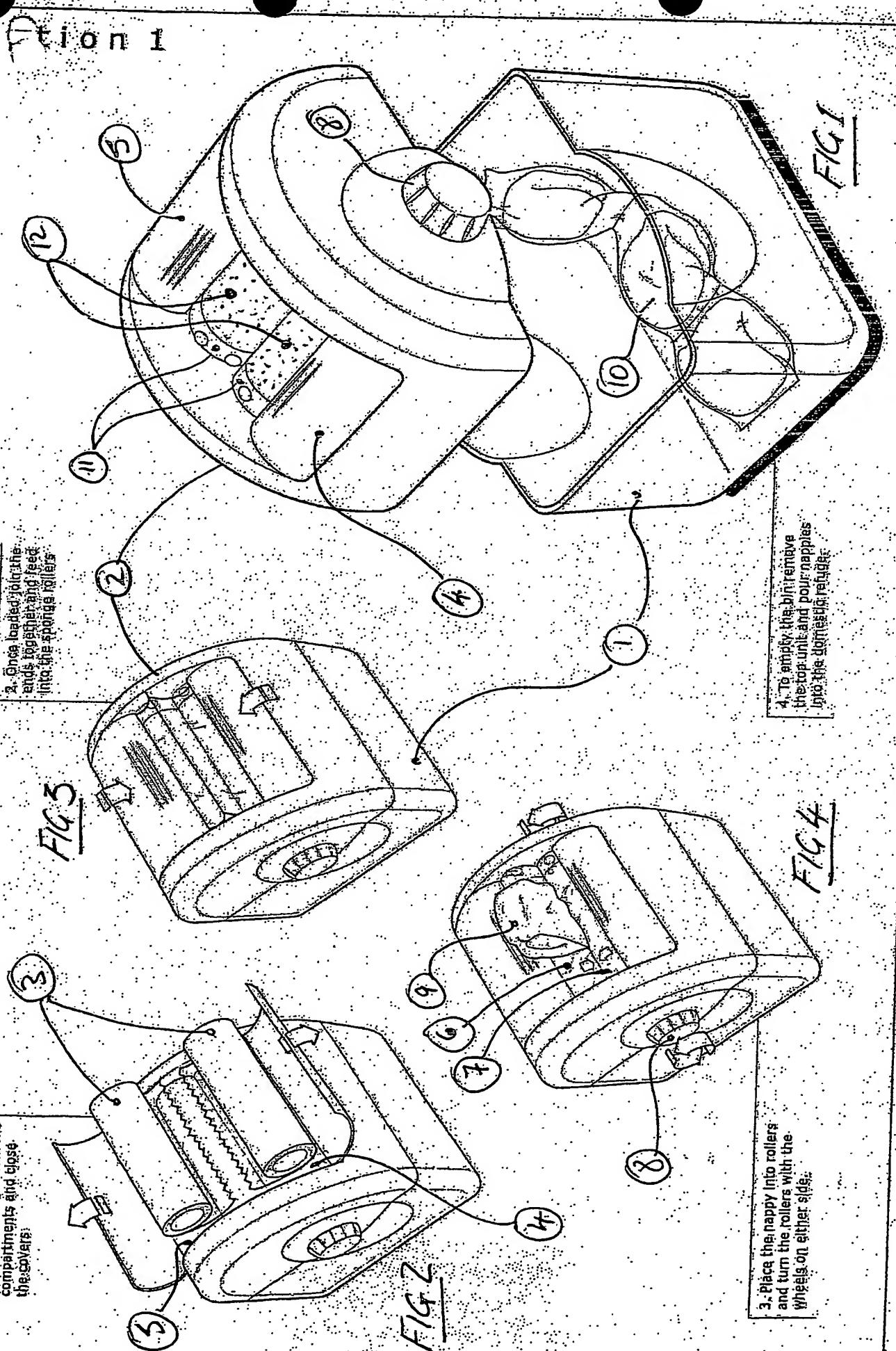


FIG 2

FIG. 12.

